

SCHEME OF EXAMINATION

And

SYLLABI

For

BACHELOR OF VOCATION

In

(INTERIOR DESIGN)

3rd SEMESTER & 4th SEMESTER

Offered by

University School of Engineering and Technology



**Guru Gobind Singh Indraprastha University
Dwarka, Delhi – 110078 [INDIA]**

www.ipu.ac.in

NOMENCLATURE OF CODES GIVEN IN THE SCHEME OF B.VOC

1. **ET** stands for Engineering and Technology.
2. **AP** stands for Architecture and Planning
3. **V** stands for Vocation.
4. **MC** stands for Mobile Communication.
5. **SD** stands for Software Development.
6. **AE** stands for Automobile.
7. **CE** stands for Consumer Electronics.
8. **PT** stands for Printing Technology.
9. **CT** stands for Construction Technology.
10. **RA** stands for Refrigeration & Air-Conditioning.
11. **PD** stands for Power Distribution Management.
12. **ID** stands for Interior Design.
13. **AA** stands for Applied Arts.
14. **CS** stands for Computer Science.
15. **MS** stands for Management Studies.
16. **EN** stands for Environmental Engineering
17. **AS** stands for Applied Science.
18. **HS** stands for Humanities and Social Sciences.
19. **SS** stands for Social Services.
20. **L/T** stands for Lecture and Tutorial
21. **P** stands for Practical.
22. **S/D** stands for Drawing/Studio
23. **P/D** stands for Practical/Drawing



**GURU GOBIND SINGH
INDRAPRASTHA
UNIVERSITY**

**BACHELOR OF VOCATION
(INTERIOR DESIGN)
THIRD SEMESTER EXAMINATION
(LEVEL-VI)**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
THEORY PAPERS						
ETVMS-601		Business Management	3	0	0	3
PRACTICAL/ VIVA VOCE/ STUDIO						
AVPID-651		Interior Design & Landscape-I	2	0	6	5
AVPID-653		Display Design-II	1	0	4	3
AVPID-655		Furniture Design-III	1	0	4	3
AVPID-657		Interior Services-I	1	0	4	3
AVPID-659		Interior Construction & Structure-II	1	0	4	3
AVPID-661		AutoCAD	1	4	0	3
AVPID-663		Interior Project-II	0	1	0	6
AVPID-665		Site Visits	0	3	0	2
TOTAL			10	08	22	31

NOTE:

The above subjects require site visits, market survey, visit to various malls, exhibitions, art galleries & museums, etc.

Training/ Interior Design Project-III

The students are required to undergo two weeks in house training during winter break and should submit project work for evaluation immediately their after for the declaration of result.

**GURU GOBIND SINGH
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UNIVERSITY**

**BACHELOR OF VOCATION
(INTERIOR DESIGN)
FOURTH SEMESTER EXAMINATION
(LEVEL-VI)**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
THEORY PAPERS						
ETVHS-602		Life Skills	3	0	0	3
PRACTICAL/ VIVA VOCE/ STUDIO						
AVPID-602		Interior Design & Landscape-II	2	0	6	5
AVPID-604		Display Design-III	1	0	4	3
AVPID-606		Furniture Design-IV	1	0	4	3
AVPID-608		Interior Services-II	1	0	4	3
AVPID-610		Interior Construction-I	1	0	4	4
AVPID-612		AutoCAD-II	1	4	0	2
AVPID-614		Interior Project-III	0	1	0	6
AVPID-616		Site Visits	0	3	0	2
TOTAL			10	08	22	31

NOTE:

The above subjects require site visits, market survey, visit to various malls, exhibitions, art galleries & museums, etc.

Training/ Interior Design Project-IV

The students are required to undergo two weeks in house training during winter break and should submit project work for evaluation immediately their after for the declaration of result.

**GURU GOBIND SINGH
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BUSINESS MANAGEMENT

Paper Code: ETVMS-601
Paper: Business Management

L	T/P	S/D	C
3	0	0	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objectives: This course is designed to expose the students to fundamental concepts of management, its processes and behavioural dynamics in organizations.

Learning Outcomes: The students will be in a position to understand the concepts of Management and apply the same at the time of managing the organization in globally competitive world.

UNIT-I

Introduction to Management: Meaning and Nature of Management, Basic Concepts of Management Definition, Need and scope .Different schools of management – Behavioural, Scientific, Systems, Contingency, Management by Objectives, Management and Society: The External Environment, Social Responsibility, and Ethics: An Overview.

[No. of Hrs. 14]**UNIT-II**

Management theories - F.W. Taylor - Henry Fayol - Elton Mayo, Evolution of Management (in India and Abroad), Levels of management, Process of Management: Managerial Skills, Tasks and Responsibilities of a Professional Manager.

[No. of Hrs. 14]**UNIT-III**

Planning-Process and Techniques, Organizing- Definition, Process and Organizational Structure, Nature, Importance, principles, centralization – de centralization Organization. structures – Line & staff , functional , product , matrix , geographical , customer , virtual , boundary less. Staffing – Definition, Nature, Importance & steps.

[No. of Hrs. 14]**UNIT-IV**

Directing-Principles and Process, Controlling-Process and Techniques, Problem Solving and Decision Making - Definition, Nature, Importance, steps; Controlling – Techniques & Steps, Leading - Nature and scope. Contemporary issues in Management.

[No. of Hrs. 14]**Text Books:**

- [T1] Stoner, R. James A.F., Edward Freeman Daniel R Gilbert Jr., Management 6TH Ed, .Prentice-Hall of India
- [T2] Essentials of management by Koontz H and Weirich, Tata, McGraw-Hill Education, Delhi.

Reference Books:

- [R1] Principles & Practice Of Management (Paper Back), Author: T.N.Chhabra, Publisher: Dhanpat Rai & Co (P) Ltd, Delhi
- [R2] Management by James A.F.Stoner, Philip.W.Yetton, Jane F.Craig, Kim D.Johnston, Second Edition. Prentice Hall of India, Delhi.

INTERIOR DESIGN & LANDSCAPE-I**Paper Code: APVID-651****Paper: Interior Design & Landscape-I**

L	T/P	S/D	C
2	0	6	5

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre-requisite: Use of Interior and Exterior Spaces awareness of Different types of plants – Indoor & Outdoor Plants. Designing of different Interior spaces.

UNIT-I

Design small apartment like 2 BHK/ 3 BHK with complete furniture Layout, Drawing - Plan, Elevation 3D view/Perspective View, Furniture detailing, using Colour schemes, Accessories, and Electrical layout Plan etc.

UNIT-II

Design commercial space like small store or Petrol Pumps convince store complete furniture Layout, Drawing - Plan, Elevation 3D view/Perspective View, Furniture detailing, using Colour schemes, Accessories and Electrical layout.

UNIT-III**FOR LAND ESCAPE**

- Relation between Outdoor and Indoor Spaces.
- How to relate interior & Exterior Spaces.
- Type of land escape – Hard and soft landscape & its use in Interiors.
- Use of materials – Constriction, Ground modeling, Ground cover, laying of grass, stone path ways.

UNIT-IV

- Potted plants, hanging baskets, shrubs, creepers, Hedges Fences, Tree Guards, Trills, water bodies, Fountain, Sculpture, Artificial pools and different types of lights used in Exteriors and their uses.
- Project on land escape Balcony area/Private gardens with layout, and a Colored perspective

Note: Design to be made by students under the guidance of faculty.

Text Book(s):

- [T1] Indoor Plants by Xania Field
- [T2] World Architecture (With Introduction to landscape Architecture) by G.K. Hiraskar
- [T3] World of house plants by JOHANS
- [T4] Indoor garden by HUNTER
- [T5] Indoor gardening by READER DIGEST ASSOCIATION (LONDON)
- [T6] Japanese homes and gardens by Marcus G. Sims

Reference Book(s):

- [R1] Interior Decoration by Satish Chandra Agarwala

DISPLAY DESIGN-II

Paper Code: APVID-655
Paper: Display Design-II

L	T/P	S/D	C
1	0	4	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: To make schemes for different types of displays

UNIT-I

- Window Display for sales promotion of different types of products/ commodities
- Use of different devices like blocks, stands, panels.
- Use of different types of lights and colours.
- For shops like Gift Gallery, Leather Goods like Bags, Shoes, Pottery and Kitchenware, Apparel for kids, ladies and gents(Branded Stores)

UNIT-II

Planning designing and 3D views in colour using props for expressing ‘Theme’ or ‘Message’ in display

UNIT-III

Use of lettering and designing of logo and trade mark as an exercise on paper

UNIT-IV**COUNTER DISPLAYS**

- Types and use of counters in store display
- Importance of Counter Display
- Planning and designing the counter display for Jewellery, spectacles/ shades, cosmetic goods and precious goods like Ivory items, precious stones, and sandal wood items using theme for display.
- All of the above to be carried out in lecture studio class
- Visits to various stores, malls and exhibitions

Note: Demonstration and visit to various malls, stores, exhibition and workshops.

Practical: Sketching existing display and making sketch files on various topics.

FURNITURE DESIGN-III

Paper Code: APVID-655
Paper: Furniture Design-III

L	T/P	S/D	C
1	0	4	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: To familiarize the student about the knowledge of furniture design and various aspects of furniture for different spaces. Objective of this course is to develop competency to design and manufacture furniture in relation to human forms and use it for different types of Interiors

UNIT-I

Introduction to Furniture Period. Oriental furniture Period, Period Furniture – Oriental furniture, Historic & Period Furniture, History of furniture is Ancient World – Ancient Egypt, Greece, Rome, and Byzantine

[No. of Hrs.]**UNIT-II**

- History of Furniture in
- Middle Age early mediaeval 500-1000
- Romomanesque, Gothic – 1200-1300,
- Furniture Development in Italy – Pre – Renaissance (1100-140)
- Quattrocento (1400-1500)
- Cinquecento (1500-1600)
- Baroque (1560 – 1700), Classical Revival (1750 – 1800)
- Italian Directoire (1795 – 1799), Italian Empire (1800 – 1815)
- Furniture Development In France –
- Early Renaissance – (1515 – 1547), High Renaissance(1560-1610), Baroque (1643 -1745)
- Rococo (1725 -1774)

[No. of Hrs.]**UNIT-III**

Neo-Classicism (1774 -1793), Directorie (1795 – 1799), Empire (1800-1815), Art Nouvea (1870 -1909), French provincial, Furniture Development in England

- Tudor/ Elizabethan, Restoration (1600 – 1685)
- William & Mary (1689 – 1702), Queer Anne (1702 – 1714)
- Early George (1714 – 1760)

[No. of Hrs.]**UNIT-IV**

Age of the great Designers (1725- 1800), Thomas Chippendale (1718 – 1779)

Robert Adam (1728 – 1792), George Happlewhite (1786), Thomas Sheraton (1751 –1806)

History of the 20th Century Furniture – Furniture Development in Germany, France, England, Italy,Scandinavia & USA

Note:

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings sheets and written assignments.
2. Drawing sheets should be prepared on each topic mentioned above

Text Book(s):

[T1] Interior Design – Ahmed Kasu

[T2] World Furniture Edited by Helena Hayward

Reference Book(s):

[R1] English Furniture Styles (1500 – 18) by Ralph ETime Saver Standard for Interior Design and Space Planning – Mcgraw Hill New York

[R2] Antique Furniture by David P. Lindquist and Carlone C. Warren

Scheme and Syllabi for B. Voc. (Interior Design)(2nd year) w. e. f. batch 2016-17, approved in the BOS of USAP held on 05th July, 2016& AC Sub Committee Meeting of USET/USICT held on 27th July, 2016.

INTERIOR SERVICES-I

Paper Code: APVID-657
Paper: Interior Services-I

L	T/P	S/D	C
1	0	4	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

- Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
- Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: This course aims at imparting knowledge in the area of interior services and their application like Water supply, lighting etc.

UNIT-I

Water Supply

- Hot and cold water supply system
- Types and sizes of pipes
- Water supply fitting to –
 - Bathroom (ii) Water closet (iii) Sink (iv) Bath tub (v) Wash Basin (vi) Bidets (vii) Showers (viii) Urinals

UNIT-II

Drainage

- Principles of Drainage
- Material s for drains
- Traps – types, sizes, function and usage
- Pipes sizes and shapes Sanitary fixtures - WC, washbasins, bath tubs, sinks (Sizes and types)
- Septic Tank

Note: Simple exercises on preparation of layout plans for toilet, kitchen; both public and residential

UNIT-III

Lighting

- Different systems of lighting – (i) natural (ii) artificial
- Units for measuring light

UNIT-IV

Electrical layout

- Planning – using electrical symbols
- Selection of fitting for different work areas as - drawing room, bedroom, study room, bath, kitchen, etc.
- Public places like offices, Malls, Hospitals

Note: Include basic knowledge of material finishes and maintenance

Text Book(s):

- Building Construction by B.C.Punmia
- Building Construction by Sushil Kumar
- Materials by RANGWALA
- Sanitary engineering by RS DESHPANDEY
- Water supply and sanitation by CHARANJIT SHAH
- A-Z of practice building constructions & its management By SANDEEP MANTRI
- Electrical engineering by O.P. SHUKLA
- Water supply and sanitation engineering by P.K. UPADHYAY

Reference Book(s):

- Sanitary Engineering by R.S. Deshpandey
- Water supply & Drainage Gurcharan Singh

INTERIOR CONSTRUCTION & STRUCTURE-II**Paper Code: APVID-659****L T/P S/D C****Paper: Interior Construction & Structure-II****1 0 4 3****INSTRUCTIONS TO PAPER SETTERS:****MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: Subject is used for understanding the structure to support Renovation/ Refurnishing / Designing of any Interior

**UNIT-I
FLOORS.**

- (a) Ground and upper floor
- (b) Different types of flooring materials, laying details

**UNIT-II
ROOFS**

- a) Pitched – different types,
- b) Trusses – types and parts in sketches

**UNIT-III
DOORS – (WITH MECHANICAL DEVICES)**

- a) Aluminum and steel doors
- b) Types of door closing devices
- c) Sliding doors
- d) Sliding and folding doors
- e) Revolving doors
- f) Swing doors
- g) Shop window front

**UNIT-IV
WINDOWS**

- a) Aluminum and steel windows
- b) Different types - Bay, Bow, Corner, Dormer, Sky light , Louvered (French) ,
- c) Casement, clerestory, Pivoted, Sliding, Ventilators.

Text Book(s):

- [T1] Building Construction by B.C.Punmia
- [T2] Building Construction by Sushil Kumar

Reference Book(s):

- [R1] Building Construction by W.B. McKay

AUTO CAD**Paper Code: APVID-661****Paper: AutoCAD**

L	T/P	S/D	C
1	0	4	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: The objective of AutoCAD is to enable students to create 2D and 3D drawing in AutoCAD.

UNIT-I

- Introduction to Hardware and Software of CAD
- Introduction: what is CAD? What to expect from CAD?
- A look at CAD industry, working of a CAD system
- CAD and interior design, the future of CAD.
- Components of CAD system
- Hardware software overview, CAD hardware, CAD software, CAD user interface
- Drawing with a computer. CAD software in the future

UNIT-II

- Introduction to AutoCAD
- Advantages of CAD
- Business applications for CAD
- Building Information Modeling, wrapping it up
- Benefits of CAD Design
- What is AutoCAD?
- Starting AutoCAD
- World Coordinate System
- AutoCAD Basics
- Basic Terminology
- Interior designing using AutoCAD

UNIT-III- CAD DRAWINGS

- A prototype CAD drawing
- Limit setups for drawings
- Understanding scale concept and limits in AutoCAD
- Drawing tools, modify tools

UNIT-IV- COLOURS AND LINE TYPES

- Line type, line type scale, line weights
- How to create a custom simple line type
- AutoCAD command list

Text Book(s)

[T1] Mastering AutoCAD by George Omura (BPP Publications)

Reference Book(s)

[R1] Joseph A. Fiorello, CAD for interior basics, John Wiley & Sons

[R2] Timothy J. Barnes, Electronic CAD frame works, Springer

[R3] Schoon Maker, Ebook Corporation, Marcel Dekker

[R4] The CAD Guidebook: a basic manual for understanding and improving Computer –Aided Design, CRC Press

INTERIOR PROJECT-II

Paper Code: APVID-663
Paper: Interior Project-III

L	T/P	S/D	C
0	1	0	6

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: Objective of project is to develop the aesthetics and abilities to design commercial interiors with the help of Principles and Elements of design.

Restaurants: Any type Indian

- Any state with special effects of décor.
- Chinese
- Japanese

Requirements: layout plan, furniture to match the theme wall, floor, ceiling finishes and specific use of lights.

Importance of Furniture and its design to justify the type of restaurants students wants to design.

Role of upholstery wall finishes

- Paints
 - Wallpapers
 - Wall paneling, etc.
- Furniture sketches with dimensions and material details.
 -3D views in color
 -Role of art work and elements used in, to enhance the theme of Restaurants may be justified in the views.
 -Beauty Parlor:
 -Requirements for drawing are the same.

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LIFE SKILLS**Paper Code: ETVHS-602****Paper: Life Skills**

L	T/P	S/D	C
3	0	0	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be of 12.5 marks.

Objectives and Pre-requisites: Students should have studied subjects such as General languages, social studies and Moral education at school level. The objective of this subject is to prepare the students to become a good citizen and a professional useful to the society.

Learning Outcomes: The knowledge of this subject will give the student a value system which will help him in taking decisions in professional and social life for the benefit of society at large.

UNIT-I

Introduction: Definition and importance of Life Skills, Livelihood Skills, Survival Skills, Life Skills Approach, Life Skills based education, Life Skills Training- Implementation Models

[T1,T2][No. of Hrs. 11]**UNIT-II**

Learning and Performance, Cognitive Development, Maturation, Adult Learning, Approaches to Learning Pillars of Education and Life Skills- Four Pillars: Learning to Know, Learning to Do, Learning to Live Together, Learning to be learning throughout Life

[T1,T2][No. of Hrs. 11]**UNIT-III**

Social Skills and Negotiation Skills: Self Awareness, Empathy, Effective Communication, Interpersonal Relationships

Thinking Skills: Nature, Element of Thought, Types, Concept Formation, Reasoning, Creative and Critical Thinking

[T1,T2][No. of Hrs. 11]**UNIT-IV**

Coping Skills: Coping with Emotions, Coping with Stress, Integrated use of thinking skills, social skills and coping skills

[T1,T2][No. of Hrs. 12]**Text Book(s):**

- [T1] Rajasenan, N.V. (2010). Life Skills, Personality and Leadership, Rajiv Gandhi National Institute of Youth Development, TamilNadu
- [T2] Duffy, Grover,K., Eastwood, A. (2008). Psychology for Living-Adjustment, Growth and Behaviour Today, Pearson Education

Reference Book(s):

- [R1] Debra McGregor, (2007), "Developing Thinking; Developing Learning - A Guide to Skills in Education", Open University Press, New York, USA
- [R2] Singh Madhu, (2003). "Understanding Life Skills, Background paper prepared for Education for All: The Leap to Equality"
- [R3] Nair. A. Radhakrishnan, (2010). "Life Skills Training for Positive Behaviour", Rajiv Gandhi National Institute of Youth Development, Tamil Nadu.
- [R4] Dahama O.P., Bhatnagar O.P, (2005). "Education and Communication for Development, (2nd Ed.)", Oxford& IBH Publishing Co. Pvt. Ltd. New Delhi

INTERIOR DESIGN & LANDSCAPE-II**Paper Code: APVID-602****Paper: Interior Design & Landscape-II**

L	T/P	S/D	C
2	0	6	5

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: To make Interior schemes of different types of interiors and use of landscape in interior & exterior

UNIT-I

Preparing Interior Scheme for

- (a) Office Area for Architects or Interior Designers, Any Office
- (b) Office Private individual office

UNIT-II

Commercials office containing Reception Area chairman's chamber, Directors Room, Staff area with open cubicles, pantry & Toilet /Washroom area, conference hall & common staff area and drawing required as layout plans, elevation and perspective Views of different area in color with use of proper accessories, plants and flower arrangement for various areas of office

UNIT-III

Fast Food Restaurant:- Existing Restaurant in neighborhood with layout plan and perspective view in the form of free hand sketches.

UNIT-IV

Public Park of your own colony/ area or specified park by the faculty. Create space for public function stage and gazebo etc. Terrace garden to be designed, laying of grass on terrace, potted plants, hanging baskets, use of lights and making sitting areas for small family get-togethers.

Drawing required:-

Layout plan, Elevations, and Perspective view of different areas in color with use of proper Accessories, plants and flower arrangements for various areas in office.

NOTE:- Design to be made by students under the guidance of faculty, lecture, demo visit of various malls/ shopping area for restaurants/ fast food visit, visit of nursery for the knowledge of plants and sculptures.

Text Book(s):

- [T1] Indoor Plants by Xania Field
- [T2] World Architecture (With Introduction to landscape Architecture) by G.K. Hiraskar
- [T3] World of house plants by JOHANS
- [T4] Indoor garden by HUNTER
- [T5] Indoor gardening by READER DIGEST ASSOCIATION (LONDON)
- [T6] Japanese homes and gardens by Marcus G. Sims

Reference Book(s):

- [R1] Interior Decoration by Satish Chandra Agarwala

DISPLAY DESIGN-III

Paper Code: APVID-604
Paper: Display Design-III

L	T/P	S/D	C
1	0	4	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective: To make schemes for different types of displays

UNIT-I

- Island display. Use and importance of island display.
- Special equipments and display aids.
- Electronic and mechanical devices to create movement in display.
- Display of handicraft and handlooms of different states
- Electronic goods using proper theme.
- Furniture of different types (Residential, offices, etc.)

UNIT-II

Preparation of plans, elevations, and 3D views in colour showing proper use of lights, colours, lettering and props.

UNIT-III

- Wall-cum-island display.
- Furnishing store, toy shop, sports goods, etc.

UNIT-IV

- Preparing plans, elevation and view, at least two different types of projects to be done in each semester.
- For understanding lectures demonstration in studio classes, visits to various showrooms, emporia, malls, exhibitions, etc.
- Brief reports of the visits to be submitted.

Note: Demonstration and visit to various malls, stores, exhibition and workshops.

Practical: Sketching existing display and making sketch files on various topics.

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FURNITURE DESIGN-IV

Paper Code: APVID-606
Paper: Furniture Design-IV

L	T/P	S/D	C
1	0	4	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

***Objective & Pre –requisite:** To teach furniture design, joinery for furniture manufacturing in relation to specific interiors, drawing of different furniture pieces based on the above.*

UNIT-I

Introduction & Study of the space saving furniture. Residential & Commercial area

UNIT-II

Different material used for making furniture like cane, Bamboo, Wood, Glam, Metal, PVC.

UNIT-III

Concept of folding & Knock Down furniture, Movable, Modular furniture

UNIT-IV

Different finishes used on furniture according to the climatic Conditions of different Countries.

Note :

1. Furniture to be designed freehand sketch files to be made topic wise.
2. Visit to various furniture workshop exhibitions and showrooms for demonstrations and information from time to time

Text Book(s):

- [T1] The Encyclopedia of Furniture, Joseph Aronson, Crown Publishers, New York
 [T2] Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York
 [T3] Portable Furniture by Vicki Brooks
 [T4] Shelves and Cabinets by Alexandria, Virginia

Reference Book(s):

- [R1] Interior Design, Francis D.K. Ching, John Wiley & Sons, New York
 [R2] Office Furniture, Susan S.Szenasy, Facts on file Inc, New York

INTERIOR SERVICES-II

Paper Code: APVID-608
Paper: Interior Services-II

L	T/P	S/D	C
1	0	4	3

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: This course aims at imparting knowledge in the area of interior series and their application like Air Conditioning, Sound insulation.

UNIT-I**SOUND AND THERMAL INSULATION**

- Behavior of heat and sound propagation
- Acoustical defects such as echo, reverberation, sound foci
- Methods of correcting
- Sound absorbing materials
- Use of sound insulating materials in interiors like auditorium conference hall typing room

UNIT-II**FIRE SAFETY SYSTEMS**

- Causes of fire
- Fire proof (Resistant) material
- Application of fire proof (Resistant) material
- Survey – Fire fighting equipments

UNIT-III**VENTILATION**

- Ventilation (i) Natural (ii) Artificial or Mechanical
- Requirement of ventilations system
- Artificial (mechanical) Ventilation systems – Extraction, Plenum, Extraction-Plenum, Air Conditioning

UNIT-IV**AIR CONDITIONING**

- Definition
- Essentials of comfort Air Conditioning
- Types – Unit A/C, Central A/C, Split A/C, Package Unit, Central And Direct Expansion & Chilled water system(Indirect)
- Essentials of Air conditioning – Filtration, heating and cooling, humidification or dehumidification, air Circulation or distribution
- Latent heat, ton of air conditioning, refrigeration etc.

Note: Case study of Analysis of existing building

Text Book(s):

- [T1] Building Construction by B.C.Punmia
- [T2] Building Construction by Sushil Kumar
- [T3] Materials by RANGWALA
- [T4] Sanitary engineering by RS DESHPANDEY
- [T5] Water supply and sanitation by CHARANJIT SHAH
- [T6] A-Z of practice building constructions & its management By SANDEEP MANTRI
- [T7] Electrical engineering by O.P. SHUKLA
- [T8] Water supply and sanitation engineering by P.K. UPADHYAY

Reference:

- [R1] Fire Fighting by S. Shah
- [R2] Ready Reckoner by Charan Jeet S. Shah

Scheme and Syllabi for B. Voc. (Interior Design)(2nd year) w. e. f. batch 2016-17, approved in the BOS of USAP held on 05th July, 2016& AC Sub Committee Meeting of USET/USICT held on 27th July, 2016.

INTERIOR CONSTRUCTION-I

Paper Code: APVID-610
Paper: Interior Construction-I

L	T/P	S/D	C
1	0	4	4

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: The objective is to refurnish different types of interior.

UNIT-I
PANELING

- Design and fixing details of paneling,
- materials used for paneling in interior
- Paneling in plywood

UNIT-II
PARTITIONS (SPACE DIVIDERS- FULL OR HALF PARTITIONS)

- Types
- Simple partitions in wood, glass and metal
- Movable partitions
- Sound proof partition
- Various modern materials available in markets

UNIT-III
FALSE CEILING (TIMBER)

- Purpose
- Materials used for fixing and finishing.
- Design and details of false ceiling in timber.

UNIT-IV
FALSE CEILING (OTHER MATERIALS)

- Role of glass, gypsum, POP in false ceiling
- Fixing of Plaster of paris in false ceiling

Text Book(s)

[T1] Building Construction by Sushil Kumar

Reference Book(s)

[R1] Building Constructions by W. B. Mckay, V.P. Sikka, B.C. Punmia, ARORA AND BIRDI

AUTO CAD-II**Paper Code: APVID-612****Paper: AutoCAD-II**

L	T/P	S/D	C
1	0	4	2

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

Objective & Pre –requisite: The objective of AutoCAD is to enable students to create 2D and 3D drawing in AutoCAD.

UNIT-I

- Introduction to working in AutoCAD and layers
- Introduction: the x, y co-ordinate system
- AutoCAD basics
- Layers
- Layer, text and dimensioning
- Working with layers

UNIT-II

- Drawing insertion, object snap, zooming and panning
- Insert a graphic file into an existing Visio drawing
- Insert command
- Building Information Modeling, wrapping it up
- Benefits of CAD Design
- What is AutoCAD?
- Starting AutoCAD
- Insert to AutoCAD
- Object snap
- Snap in AutoCAD
- Zooming and panning, freehand sketch, editing and drawing

UNIT-III**PLAN AND 3D VIEW DRAWING**

- Introduction
- 3D CAD Terminology
- Isometric Drawing
- The 3D co-ordinate system
- 3D rotation
- Viewing in 3-D objects
- Wire frame Drawing Techniques
- Line thickness Drawing Techniques
- Regions and 3-D faces

UNIT-IV**ENHANCED 3-D**

- Extruding and lofting
- Revolving objects
- AutoCAD 3-D modeling -3D views

Text Book(s)

[T1] Mastering AutoCAD by George Omura (BPB Publications)

Reference Book(s)

[R1] Joseph A. Fiorello, CAD for interior: Beyond the basics John Wiley & Sons

[R2] John K. Krouse, what every engineer should know about CAD & computer aided manufacturing: the CAD/CAM revolution, M. Dekker

[R3] Dinesh Maidasani, straight to the point- AutoCAD, Laxmi Publications, ltd.

INTERIOR PROJECT-III

Paper Code: APVID-614
Paper: Interior Project-III

L	T/P	S/D	C
0	1	0	6

INSTRUCTIONS TO PAPER SETTERS:**MAXIMUM MARKS: 75**

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 12.5 marks.

***Objective & Pre –requisite:** Objective of the project is to develop the skill and ability to design versatile commercial interior design. Students to the best of their ability and aesthetics develop the project.*

Nursery school-cum-day boarding and activities school study at least two schools in the neighborhood. Submit the report before initiating the project.

Drawings required are-

- Layout plan of different areas and small open activity area.
- Furniture and special furniture for day boarders.
- The overall ambience with effective designs and landscape.

Creative Art Center:- For the age group of 12 onwards to learn dance, drama, music, drawing, painting, etc.

Required drawings are the same as above (nursery school project).

**GURU GOBIND SINGH
 INDRAPRASTHA
 UNIVERSITY**